

# Exhibit A

**Curriculum Vitae of:**

**Aaron Reed Biesbrock**  
DMD, PhD, MS

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The Procter & Gamble Company  
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## Education

State University of New York Buffalo, NY School of Dental Medicine	1989 - 1995	Oral Biology	PhD (1995)
State University of New York Buffalo, NY School of Dental Medicine	1989 - 1993	Periodontics	Certification (1994)
Medical College of Georgia Augusta, GA	1984 - 1989	Dentistry	DMD (1989)
Medical College of Georgia Augusta, GA	1986 - 1989	Oral Biology	MS (1989)
North Georgia College Dahlonega, GA	1981 - 1984	Chemistry	BS (1986)

## Professional Experience

4/07 – Present	Associate Director, Head of Global Oral Care Clinical Research Procter & Gamble Company
2/05 – 3/07	Section Head, Head of Global Oral Care Clinical Research Procter & Gamble Company
12/01 – 1/05	Principal Research Scientist Procter & Gamble Company
12/98 - 11/01	Senior Research Scientist Procter & Gamble Company
6/95 - 11/98	Research Scientist Procter & Gamble Company
7/93 - 5/95	Clinical Instructor Department of Periodontics, SUNY at Buffalo
7/89 - 5/95	Postdoctoral Fellow Department of Oral Biology, SUNY at Buffalo
7/89 - 5/93	Resident (Periodontics) Department of Periodontics, SUNY at Buffalo
6/86 - 5/89	Graduate Student Teaching/Research Assistant School of Graduate Studies, Medical College of Georgia

## Dental Licensure

State Dental Board of Ohio	1995	License #20253 (Active)
Georgia Board of Dentistry	1989	License #10759 (Inactive)

**Dental Boards**

American Academy of Periodontology (Part 1)	1994
Georgia State Board of Dentistry	1989
National Board of Dental Examiners (Part 1 & 2)	1989

**Professional Honors**

National Research Service Award (Postdoctoral Fellowship)	SUNY	1994 - 1995
NIH Dentist-Scientist Award	SUNY	1989 - 1994
NIH Short Term Training Award	MCG	1985 - 1989
Senior Clinic Production Award	MCG	1988 - 1989
Graduate School Teaching/Research Fellowship	MCG	1986 - 1987

**Professional Affiliations**

American Association of Dental Research  
 American Academy of Periodontology  
 American Dental Association

**Publications: Manuscripts**

- 1) Biesbrock AR, Reddy MS, Levine MJ. Interaction of a salivary mucin-secretory immunoglobulin A complex with mucosal pathogens. *Infect Immun* 1991; 59: 3492-3497.
- 2) Biesbrock AR, Dirksen T, Schuster G. Effects of tung oil on salivary viscosity and extent and incidence of dental caries in rats. *Caries Res* 1992; 26: 117-123.
- 3) Biesbrock AR, Aguirre A. Multiple focal pigmented lesions in the maxillary tuberosity and hard palate: A unique display of intraoral junctional nevi. *J Periodontol* 1992; 63: 718-721.
- 4) Reddy MS, Bobek LA, Haraszthy GG, Biesbrock AR, Levine MJ. Structural features of the low-molecular-mass human salivary mucin. *Biochem J* 1992; 287: 639-643.
- 5) Bobek LA, Tsai H, Biesbrock AR, Levine MJ. Molecular cloning, sequence and specificity of expression of the gene encoding the low molecular weight human salivary mucin. *J Biol Chem* 1993; 268: 20563-20569.
- 6) Biesbrock AR, Edgerton M. Evaluation of the clinical predictability of hydroxyapatite coated endosseous dental implants: A review of the literature. *Int J Oral Maxillofac Implants* 1995; 10: 712-720.
- 7) Biesbrock AR, Bobek LA, Levine MJ. MUC7 expression and genetic polymorphism. *Glycoconjugate J* 1997; 14: 415-422.

- 8) Hermesch CB, Hilton TJ, Biesbrock AR, Baker RA, Cain-Hamlin J, McClanahan SF, Gerlach RW. Perioperative use of 0.12% chlorhexidine gluconate for the prevention of alveolar osteitis. Efficacy and risk factor analysis. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 1998; 85: 381-387.
- 9) Biesbrock AR, Faller RV, Bartizek RD, Court LK, McClanahan SF. Reversal of incipient and radiographic caries through the use of sodium and stannous fluoride dentifrices in a clinical trial. *J Clin Dent* 1998; 9: 5-10.
- 10) Caplan DJ, Slade GD, Biesbrock AR, Bartizek RD, McClanahan SF, Beck JD. A comparison of increment and incidence density analyses in evaluating the anti-caries effects of two dentifrices. *Caries Res* 1999; 33: 16-22.
- 11) Biesbrock AR, Yeh CH. Relationship of surface epithelium concentrations of IL-1 $\alpha$  and IL-1 $\beta$  to clinical inflammation during experimental gingivitis. *Monographs in Oral Science* 2000; 17:20-31.
- 12) McClanahan SF, Bartizek RD, Biesbrock AR. Identification and consequences of distinct loe-silness gingival index examiner styles for the clinical assessment of gingivitis. *J Periodontol* 2001; 72:383-392.
- 13) Biesbrock AR, Bartizek RD, Faller RV, Jacobs SA, Gerlach RW. Relative anti-caries efficacy of 1100, 1700, 2200 and 2800 ppm fluoride ion in a sodium fluoride dentifrice over one year. *Community Dent Oral Epidemiol* 2001; 29:382-389.
- 14) Bartizek RD, Gerlach RW, Faller RV, Jacobs SA, Bollmer BW, Biesbrock AR. Reduction in dental caries with four concentrations of sodium fluoride in a dentifrice: A meta-analysis evaluation. *J Clin Dent* 2001; 12:57-62.
- 15) Ruhlman CD, Bartizek RD, Biesbrock AR. Plaque removal efficacy of a battery operated toothbrush compared to a manual toothbrush. *Am J Dent* 2001, 14:191-194.
- 16) Ruhlman CD, Bartizek RD, Biesbrock AR. Comparative efficacy of two battery operated toothbrushes for dental plaque removal. *J Clin Dent* 2002, 13:95-99.
- 17) You BJ, Jian WW, Sheng RW, Jun Q, Wa WC, Bartizek RD, Biesbrock AR. Caries prevention in Chinese children with sodium fluoride dentifrice delivered through a kindergarten-based oral health program in China. *J Clin Dent* 2002; 13:179-184.
- 18) Wefel JS, Stanford CM, Ament DK, Pfarrer A, Ramsey LL, Leusch MS, Biesbrock AR. In situ evaluation of sodium hexametaphosphate containing dentifrices. *Caries Res* 2002; 36:122-128.
- 19) Biesbrock AR, Walters PA, Bartizek RD, Ruhlman CD, Donly KJ. Dental plaque removal with a novel battery-powered toothbrush. *Am J Dent* 2002; 15:77-80.
- 20) Donly KJ, Segura A, Walters PA, Bartizek RD, Biesbrock AR. Dental plaque removal with two battery powered toothbrushes. *Am J Dent* 2002; 15:24A-27A.
- 21) Heins P, Bartizek RD, Walters PA, Biesbrock AR. Plaque removal efficacy of a battery operated power toothbrush compared to two control manual toothbrushes. *Am J Dent* 2002; 15:28A-32A.
- 22) Biesbrock AR, Bayuk L, Santana MV, Yates DS, Bartizek RD. The clinical effectiveness of a novel battery powered toothbrush and its impact on oral health. *J Contemporary Dent Prac* 2002, 3:1-10.

- 23) Bartizek RD, Biesbrock AR. Dental plaque removal efficacy of a battery operated power toothbrush versus a control Japanese manual toothbrush. *Am J Dent* 2002; 15:33A-36A.
- 24) Biesbrock AR, Walters PA, Bartizek RD. The relative effectiveness of six power toothbrushes for dental plaque removal. *J Clin Dent* 2002; 5:198-202.
- 25) Williams K, Walters P, Bartizek RD, Biesbrock AR. The reduction of gingivitis using battery powered toothbrushes over a one month period. *J Clin Dent* 2002; 5:207-210.
- 26) Papas AS, Martuscelli G, Singh ML, Stone C, Bartizek R, Topmiller K, Biesbrock AR, Walters P. A study to assess the safety and tolerability of three toothbrushes. *J Clin Dent* 2002; 5:203-206.
- 27) Karpinia K, Magnusson I, Biesbrock AR, Walters PA, Bartizek RD. The effectiveness of two different battery powered toothbrushes on whitening through the removal of stain. *J Clin Dent* 2002; 5:215-218.
- 28) Yankell SL, Shi X, Emling RC, Blatz B, Biesbrock AR. Laboratory evaluations of two-battery-powered toothbrushes and a manual toothbrush for efficacy and safety. *J Clin Dent* 2002; 5:187-190.
- 29) Haun J, Williams K, Friesen L, Ferrante A, Walters PA, Bartizek RD, Biesbrock AR. Plaque removal efficacy of a new experimental battery powered toothbrush relative to two advanced design manual toothbrushes. *J Clin Dent* 2002; 5:191-197.
- 30) Biesbrock AR. A second generation battery powered toothbrush. *J Clin Dent* 2002; 5:185-186.
- 31) Gerlach RW, Biesbrock AR. Comparative clinical trials and the changing marketplace for oral care: Innovation, evidence, and implications. *Am J Dent* 2002; 15:3A-6A.
- 32) Biesbrock AR, Bartizek RD, Gerlach RW, Jacobs SA, Archila LA. Dose response efficacy of sodium fluoride dentifrice at 9 and 12 months with a supervised brushing regimen. *Am J Dent* 2003; 16:305-312.
- 33) Biesbrock AR, Bartizek RD, Gerlach RW, Jacobs SA, Archila L. Effect of three concentrations of sodium fluoride dentifrices on clinical caries. *Am J Dent* 2003; 16:99-104.
- 34) Williams K, Haun J, Dockter K, Ferrante A, Bartizek RD, Biesbrock AR. Plaque removal efficacy of a prototype powered toothbrush compared to a positive control manual toothbrush. *Am J Dent* 2003; 16:223-227.
- 35) Biesbrock AR, Bartizek RD. The impact of bristle profile on plaque removal efficacy of a battery-powered toothbrush. *Am J Dent* 2003; 16:161-164.
- 36) Biesbrock AR, Walters PA, Bartizek RD. Initial impact of a national dental education program on the oral health and dental knowledge of children. *J Contemporary Dent Prac* 2003; 4:1-10.
- 37) Biesbrock AR, Chesters RK, Ellwood RP, Smith SR. The challenges of validating diagnostic methods relative to a conventional two year caries clinical trial. *J Dent Res* 2004; 83 (Spec Iss C):C53-C55.
- 38) Chesters RK, Ellwood RP, Biesbrock AR, Smith SR. Potential modern alternative designs for caries clinical trials (CCT's) and how these can be validated against the conventional model. *J Dent Res* 2004; 83 (Spec Iss C):C122-C124.

39) Archila LA, Bartizek RD, Gerlach RW, Jacobs SA, Biesbrock AR. Dental caries in school-age children residing in five Guatemalan communities. *J Clin Dent* 2003; 14:53-58.

40) Stookey GS, Mau M, Isaacs RI, Gonzalez-Gierbolini C, Bartizek RD, Biesbrock AR. The relative anticaries effectiveness of three fluoride-containing dentifrices relative in Puerto Rico. *Caries Res* 2004; 38:542-550.

41) Williams K, Ferrante A, Dockter K, Haun J, Biesbrock AR, Bartizek RD. One- and 3- minute plaque removal by a battery-powered toothbrush versus a manual toothbrush. *J Periodontol* 2004; 75:1107-1113.

42) Williams K, Haun J, Dockter K, Ferrante A, Bartizek RD, Biesbrock AR. A plaque removal study comparing two advanced design oscillating battery-powered toothbrushes. *J Clin Dent* 2003; 14:88-92.

43) Biesbrock AR, Walters PA, Bartizek RD. A chewing gum containing 7.5% sodium hexametaphosphate inhibits stain deposition compared with a placebo chewing gum. *Compend Contin Educ Dent* 2004; 25:253-265.

44) Walters P, Biesbrock AR, Bartizek RD. A polyphosphate containing chewing gum significantly reduces induced extrinsic stain compared to a commercial chewing gum. *J Dent Hygiene* 2004; 78:8.

45) Archila L, Bartizek RD, Winston JL, Biesbrock AR, McClanahan SF, He T. The comparative efficacy of stabilized stannous fluoride dentifrice and triclosan/copolymer dentifrice for the prevention of gingivitis: A six-month clinical study. *J Periodontol* 2004; 75:1592-1599.

46) Bartizek RD, Walters PA, Biesbrock AR. The prevention of induced stain using two levels of sodium hexametaphosphate in chewing gum. *J Clin Dent* 2003; 14:77-81.

47) Mankodi S, Bartizek RD, Winston JL, Biesbrock AR, McClanahan SF, He T. Anti-gingivitis efficacy of a stabilized 0.454% stannous fluoride/hexametaphosphate dentifrice: a controlled six-month clinical trial. *J Clin Periodontol* 2005; 32:75-80.

48) Biesbrock AR, Bartizek RD. The development of a new power toothbrush designed for improved tooth whitening through extrinsic stain removal. *Am J Dent* 2004; 17:3A-7A.

49) Terezhalmi G, Stookey G, Mason S, Bartizek RD, Biesbrock AR. Tooth whitening through the removal of extrinsic stain with a power toothbrush: Results of four randomized, examiner blind, positive controlled clinical studies. *Am J Dent* 2004; 17:18A-24A.

50) Bartizek RD, Biesbrock AR. Dental plaque removal effectiveness of two powered toothbrushes. *Am J Dent* 2004; 17:8A-12A.

51) Garcia-Godoy F, Villata P, Bartizek RD, Barker M, Biesbrock AR. Tooth whitening effects of an experimental power whitening toothbrush relative to a 9% hydrogen peroxide paint-on-gel. *Am J Dent* 2004; 17:25A-30A.

52) Archila L, He T, Winston JL, Biesbrock AR, McClanahan SF, Bartizek RD. Anti-gingivitis efficacy of a stabilized stannous fluoride/hexametaphosphate dentifrice in subjects previously non-responsive to a triclosan/copolymer dentifrice. *Compend Contin Educ Dent* 2005; 26(supplement 1):12-18.

53) Van Dyke TE, Cutler CW, Kowolik M, Singer RS, Buchanan W, Bartizek RD, Biesbrock AR. Effect of a topical cimetidine rinse on gingival crevicular neutrophil leukocyte function. *J Periodontol* 2005; 76:998-1005.

54) Biesbrock AR, Walters PA, Bartizek RD. Short-term impact of a national dental education program on children's oral health and knowledge. *J Clin Dent* 2004; 15:93-97.

55) Biesbrock AR, Bartizek RD. Plaque removal efficacy of a prototype power toothbrush compared to a control manual toothbrush. *Am J Dent* 2005; 18:116-120.

56) Terezhalmay G, Bartizek RD, Biesbrock AR. Relative plaque removal of three toothbrushes in a nine period crossover study. *J Periodontol* 2005; 76:2230-2235.

57) Terezhalmay GT, Bsoul SA, Bartizek RD, Biesbrock AR. Plaque removal efficacy of a prototype manual toothbrush versus an ADA reference manual toothbrush with and without dental floss. *J Contemp Dent Prac* 2005; 6:1-13.

58) Biesbrock AR, Bartizek RD. The Biesbrock-Bartizek caries model. In Stookey GK (ed): *Clinical Models Workshop: Remin-Demin, Precavitation, Caries: Proceedings of the 7<sup>th</sup> Indiana Conference*. Indianapolis, Indiana University School of Dentistry; 2005, pages 143-160.

59) Farrell S, Terezhalmay GT, Bartizek RD, Biesbrock AR. Comparative plaque removal efficacy of a dual-action power toothbrush and a manual toothbrush: Effects by tooth type. *Am J Dent* 2006; 19:195-200.

60) Biesbrock A, Corby PMA, Bartizek R, Corby AL, Coehlo M, Costa S, Bretz WAG, Bretz WA. Assessment of treatment responses to dental flossing in twins. *J Periodontol* 2006; 77:1386-1391.

61) Terezhalmay GT, Biesbrock AR, Farrell S, Barker ML, Bartizek RD. Tooth whitening through the removal of extrinsic stain with two sodium hexametaphosphate-containing whitening toothpastes. *Am J Dent* 2007; 20:309-314.

62) Terezhalmay G, Bartizek RD, Biesbrock AR. Plaque removal efficacy with four types of dental floss. *J Periodontol* 2007; In Submission.

63) Papas A, He T, Martuscelli G, Singh M, Bartizek RD, Biesbrock AR. The comparative efficacy of stabilized stannous fluoride/sodium hexametaphosphate dentifrice and sodium fluoride/triclosan/copolymer dentifrice for the prevention of untreated periodontitis in xerostomic patients: A two year randomized clinical trial. *J Periodontol* 2007; 78:1505-1514.

64) Walters PA, Cugini MA, Biesbrock AR, Warren PR. A novel oscillating-rotating power toothbrush with smartguide: Designed for enhanced performance and compliance. *J Contemporary Dent Prac* 2007; 8:1-9.

65) He T, Baker R, Bartizek RD, Biesbrock AR, Chaves E, Terezhalmay G. Extrinsic stain removal efficacy of a stannous fluoride dentifrice with sodium hexametaphosphate. *J Clin Dent* 2007; 18:7-11.

66) Biesbrock AR, He T, Walters PA, Bartizek RD. A clinical study evaluating the effects of a sonic toothbrush with ultrasound waveguide in disrupting plaque with and without bristle contact. *Am J Dent* 2007; In Submission.

67) Biesbrock AR, Bartizek RD, Walters PA, Warren PR, Cugini MA, Goyal CR. Clinical evaluations of plaque removal efficacy: An advanced oscillating-rotating power toothbrush versus a sonic toothbrush. *J Clin Dent* 2007; In Submission.

68) Biesbrock AR, Bartizek RD, Walters PA, Terezhalmay GT, Gerlach RW. Popular oral hygiene regimens and benefits for plaque control and gingival health. *J Clin Dent* 2007; In Submission.

69) Corby PMA, Biesbrock AR, Bartizek RD, Corby AL, Bretz WA. Treatment outcomes to dental flossing in twins: Molecular microbial analysis. *J Periodontol* 2008; In Submission.

70) Biesbrock AR, Archila L, Gerlach RW, Rubush M, Gibb R, Terezhalmay GT, Bartizek RD. A clinical study evaluating the ability of digital gingival image analysis and laser specular image analysis to measure fluctuations in gingival capillary blood flow. *J Periodontol* 2008; In Submission.

### **Abstracts**

- 1) Biesbrock A, Schuster G, Dirksen T. Salivary viscosity and the incidence of dental caries. *J Dent Res* 1988; 67: 344 (special issue).
- 2) Biesbrock AR, Reddy MS, Levine MJ. Structure and function of a low molecular weight salivary mucin. *Glycoconjugate J* 1990; 7: 461.
- 3) Bobek LA, Tsai H, Reddy MS, Biesbrock AR, Levine MJ. Molecular cloning of the low molecular weight salivary mucin. *J Dent Res* 1992; 71:731 (special issue).
- 4) Bobek LA, Tsai H, Reddy MS, Biesbrock AR, Levine MJ. Molecular cloning of human salivary mucins. *Glycoconjugate J* 1992; 9: 498.
- 5) Biesbrock AR, Bobek LA, Levine MJ. Characterization and expression of the human salivary mucin gene, MUC7. *J Dent Res* 1994; 73: 310 (special issue).
- 6) Bobek LA, Liu J, Biesbrock AR, Levine MJ. Structure and expression of the human salivary mucin gene, MUC7. *Eur J Oral Sci* 1995.
- 7) Biesbrock AR, Bobek LA, Levine MJ. Expression and biological activity of human salivary apomucin (MUC7). *Glycoconjugate J* 1995; 12.
- 8) Paquette D, Williams R, Offenbacher S, Cates T, Baker R, Biesbrock A, Bouwsma O, Campbell S, Gerlach R, McClanahan S. Pharmacokinetic evaluation of a locally delivery tetracycline hydrochloride gel in periodontitis patients. *J Dent Res* 1997; 76: 152 (special issue).
- 9) Campbell SL, Biesbrock AR, Gerlach RW. Assessment of residual periodontal disease in periodontal maintenance populations. *J Dent Res* 1997; 76: 215 (special issue).
- 10) Baker RA, Biesbrock AR, Campbell SL, Higgins RE, Gerlach RW; Magnusson I. Variability in pocket depth measurements between naïve and experienced examiners. *J Dent Res* 1997; 76: 228 (special issue).
- 11) Hermesch C, Hilton T, Baker R, Biesbrock A, Hamlin J, McClanahan S, Gerlach R. Prophylactic use of Peridex reduces the incidence of alveolar osteitis following third molar extraction. *J Dent Res* 1997; 76: 243 (special issue).

- 12) Biesbrock A, Hamlin J, Baker R, Gerlach, R, McClanahan S, Hilton T, Hermesch C. Risk factors for alveolar osteitis following the extraction of impacted mandibular third molars. *J Dent Res* 1997; 76: 243 (special issue).
- 13) Davis CC, Hull JR, Biesbrock AR. Relative ranking of oral lesions contained in a training module. *J Dent Res* 1998; 77: 208 (special issue).
- 14) Hull JR, Davis CC, Biesbrock AR. COSTART classification development for clinically validated oral lesions. *J Dent Res* 1998; 77: 212 (special issue).
- 15) Suvan J, Biesbrock AR, Hamlin JC, Pratt JL, McClanahan SF, Winston JL. Examiner repeatability of whole mouth pocket depth probing measurements *J Dent Res* 1998; 77: 922 (special issue).
- 16) Jeffcoat M, Page R, Reddy M, Magnusson I, Biesbrock A, Cavanaugh P, Meredith M, Gerlach R. Prevention of alveolar bone loss in periodontitis with ketorolac oral rinse: A dose response study. *J Dent Res* 1998; 77: 1000 (special issue).
- 17) Biesbrock AR, Faller RV, Bartizek RD, Court LK, McClanahan SF. Clinical reversal of caries with sodium and stannous fluoride dentifrices. *J Dent Res* 1998; 77: 1016 (special issue).
- 18) Perkins MA, Biesbrock AR, Robinson MK, Osterhues MA. Reapplication of a novel noninvasive tape sampling method for assessing the relationship of gingival inflammation and bleeding to gingival cytokine concentrations. *Toxicological Sciences* 1999; 98:53.
- 19) Biesbrock AR, Perkins MA, Fiedler SK, Yeh CH. Relationship of gingival inflammation and bleeding to gingival cytokine concentrations. *J Dent Res* 1999; 78: 554 (special issue).
- 20) Gerlach RW, Baker RA, Biesbrock AR, Damani NC, Donly KJ, Lainson PA. Clinical response to locally-delivered bioerodible tetracycline gel in periodontal maintenance. *J Dent Res* 2000; 79:517 (special issue).
- 21) Singer RE, Grbic J, Biesbrock A, Yeh CH, Lamster I, Lang NP. Relationship of GCF IgA and beta-glucuronidase to changes in periodontal severity. *J Dent Res* 2000; 79:483 (special issue).
- 22) Bacca LA, Biesbrock AR, Glandorf WM, Leusch MS. Seven day partial brushing model evaluating gingival epithelium cytokine levels. *J Dent Res* 2000; 79:306 (special issue).
- 23) Gerlach RW, Bartizek RD, Jacobs SA, Biesbrock AR. Sibling Caries: Evidence from four geographically-diverse cross-sectional studies. *J Dent Res* 2001; 80:36 (special issue).
- 24) Walters PA, Biesbrock AR, Jacobs SA, Gerlach RW, McClary JM, Bartizek RD, Mau MS, Kelly SA, Stookey GS. Novel clinical design for the assessment of examiner repeatability and sensitivity for detection of caries progression. *J Dent Res* 2001; 80:118 (special issue).
- 25) McClary JM, Walters PA, Jacobs SA, Gerlach RW, Bartizek RD, Winston JL, Biesbrock AR. Examiner calibration exercise for the assessment of radiographic caries. *J Dent Res* 2001; 80:118 (special issue).
- 26) Archila L, Walters PA, Bartizek RD, Gerlach RW, McClary JM, Jacobs SA, Biesbrock AR. Incidence and prevalence of dental caries in children in five cities throughout Guatemala. *J Dent Res* 2001; 80:118 (special issue).

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28) McClanahan SF, Archila LA, Walters PA, Bartizek RD, Gerlach RW, Jacobs SA, Biesbrock AR. Comparison of brushing regimens on caries progression over one year. *J Dent Res* 2002; 81:A-32 (special issue).

29) Van Dyke T, Cutler CW, Kowolik M, Singer RE, Buchanan W, Biesbrock AR. Effects of topical cimetidine rinse on gingival crevicular neutrophil leukocyte function. *J Dent Res* 2002; 81:A-498 (special issue).

30) Walters PA, Bartizek RD, Topmiller K, Ruhlman CD, Biesbrock AR. A study to evaluate the effectiveness of two battery-powered toothbrushes on the removal of dental plaque. *J Dent Res* 2002; 81:A-398 (special issue).

31) Singer RE, Biesbrock AR, Cerone K, Kwok K, Liu H, Winston JL. Relationship between gingival inflammation and systemic biomarkers: Impact of smoking and systemic anti-oxidants. *J Dent Res* 2002; 81:A-122 (special issue).

32) Winston JL, Cavanaugh PF, Biesbrock AR, Cerone C, Liu H, Hyde JD, Singer RE. Relationship between body mass index and oral health. *J Dent Res* 2002; 81:A-449 (special issue).

33) Biesbrock AR, Bartizek RD, Gerlach RW, Jacobs SA, Archila L. Dose response brushing efficacy of sodium fluoride dentifrices at 9 and 21 months with supervised brushing. *J Dent Res* 2003; 82 (special issue A):A-1358

34) Archila L, Bartizek RD, Gerlach RW, Jacobs SA, Biesbrock AR. Short-term caries study examining the effects of three doses of sodium fluoride dentifrices. *J Dent Res* 2003; 82 (special issue):A-1359

35) Bartizek RD, Walters PA, Biesbrock AR. The effect of an oral health educational program on gingivitis and plaque over 4 weeks. *J Dent Res* 2003 (special issue A); 82:A-0998

36) Gerlach RW, Barker ML, Anastasia MK, Baker RA, Campolongo KL, Biesbrock AR. Vital bleaching clinical response using stock and custom trays. *J Dent Res* 2003; 82 (special issue A):A-1035

37) Biesbrock AR, Bartizek RD. The association of serum chemistry variables to active caries: Analyses of the third national health and nutrition examination survey (NHANESIII). *J Dent Res* 2004; 83 (special issue A): A-0775

38) Winston JL, Bartizek RD, Biesbrock AR. The relative effectiveness of two battery-powered toothbrushes. *J Dent Res* 2004; 83 (special issue A): A-0161

39) Biesbrock AR, Bartizek RD. Plaque removal with a battery operated power toothbrush. *J Dent Res* 2005; 84 (special issue A): A-0102

40) Papas AS, Martuscelli G, Singh M, He T, Bartizek RD, Biesbrock AR. Two year RCT of two dentifrices for prevention of periodontitis. *J Dent Res* 2005; 84 (special issue A): A-1360

41) Gerlach RW, Bartizek RD, Biesbrock AR, Dunavent JM, Gibb RD, McClanahan SF. Oral hygiene, perceived health and gingivitis occurrence, distribution and severity. *J Dent Res* 2006; 85 (special issue A): A-1113

42) Singh ML, Papas AS, Biesbrock AR. Root caries increment in a medication induced saliva hypofunction population. *J Dent Res* 2006; 85 (special issue A): A-1472

43) Singh M, Martuscelli G, Singh ML, Papas AS, Biesbrock AR. Progression of periodontitis in a medication induced saliva hypofunction population. *J Dent Res* 2006; 85 (special issue A): A-2147

44) Gerlach RW, Biesbrock AR, Bartizek RD, Terezhalmay GT. Incremental clinical plaque effects with CPC and essential oils rinses. *J Dent Res* 2007; 86 (special issue A): A-2501

45) Terezhalmay GT, Biesbrock AR, Gerlach RW, Bartizek RD. Extrinsic stain removal efficacy of a 0.454% stannous fluoride dentifrice. *J Dent Res* 2007; 86 (special issue A): A-2035

46) Gerlach RW, Biesbrock AR. 0.454% stannous fluoride dentifrice and tooth staining: composite evidence. *J Dent Res* 2007; 86 (special issue A): A-0691

47) Terezhalmay GT, Bsoul S, Biesbrock AR, Bartizek RD, Gerlach RW. Comparative plaque removal with 4 different dental flosses. *J Dent Res* 2007; 86 (special issue A): A-1746

48) Gerlach RW, Bartizek RD, Britt ML, Fiedler SK, Biesbrock AR. Comparative clinical effectiveness of stannous fluoride dentifrice in treating gingivitis. *J Dent Res* 2007; 86 (special issue A): A-1191

49) He T, Gerlach RW, Bartizek RD, Gibb RD, Dunavent JM, Biesbrock AR. Meta-analyses of gingivitis effects with a 0.454% stannous fluoride dentifrice. *J Dent Res* 2007; 86 (special issue A): A-1192

### **Peer Journal Reviewer**

- 1.) American Journal of Dentistry (2004 – Present)
- 2.) Journal of Periodontology (2006 – Present)

### **Awarded Research Support**

National Institute of Dental Research

"Expression of the low molecular mass salivary mucin, MG2"

AR Biesbrock, Principal Investigator

Duration: 1 year (7/7/94 - 7/6/95)

National Research Service Award Postdoctoral Fellowship (F32)

### **Teaching Experience**

1994 - 1995	Seminar leader in "Selective Topics in Preventive Dentistry" SUNY at Buffalo (2 <sup>nd</sup> year dental students)
1994 - 1995	Lecturer in "Seminars in Dental Implantology" SUNY at Buffalo (Postgraduate resident dental students)
1993 - 1995	Clinical Teaching in Periodontics SUNY at Buffalo (4 <sup>th</sup> year dental students)

1992	Clinical Teaching Preventive Dentistry SUNY at Buffalo (2 <sup>nd</sup> year dental students)
1990 - 1992	Lecturer in "Microbiology of Dental Caries" SUNY at Buffalo (Postgraduate resident dental students)
1990 - 1991	Clinical Teaching in Periodontics Erie County Medical Center (General Practice Residents)
1990 - 1991	Clinical Teaching in Periodontics SUNY at Buffalo (3 <sup>rd</sup> year dental students)

### **Invited Research Presentations**

- 1.) 2001 – International Consensus Workshop on Caries Clinical Trials, Loch Lomond, Scotland  
The challenges of validating diagnostic methods relative to a conventional two year caries clinical trial
- 2.) 2001 – International Consensus Workshop on Caries Clinical Trials, Loch Lomond, Scotland  
Potential modern alternative designs for caries clinical trials (CCTs) and how these can be validated against the conventional model
- 3.) 2002 - Tufts University, Research Day, Power Toothbrush Symposium, Boston, Massachusetts  
The evolution of Crest SpinBush
- 4.) 2004 - American Academy of Pediatric Dentistry, AAPD Foundation Continuing Education Course, San Francisco, California  
Early caries detection and caries management by risk assessment
- 5.) 2005 - Indiana Conference, Clinical Models Workshop: Remin-Demin, Precavitation, Caries, Indianapolis, Indiana  
The Biesbrock-Bartizek model for clinical caries trials
- 6.) 2006 – University of Mississippi, Student Research Day, Jackson, Mississippi  
The science and innovation of oral care product development